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COMPANIES INVEST MILLIONS IN TOOLS FOR INFORMATION, YET **THEY STILL CAN'T FIND** THE INFORMATION THEY NEED

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increase in User's
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2002.

Source: Outsell

30%

of total R&D spend is
wasted duplicating
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previously done.

Source: WIPO,
National Board of Patents and
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22%

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is spent for searching
and gathering
information everyday
(1.8hours)

Source: McKinsey Report

13

unique data sources
are used to find an-
swers to each engine-
ering challenge

Source: Aberdeen



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전문 자료들을 한번에 통합 검색해 볼 수 있을까요?

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Chapter

Contents 구성

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검색 Contents 상세

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시 연



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1
Chapter

Contents 구성



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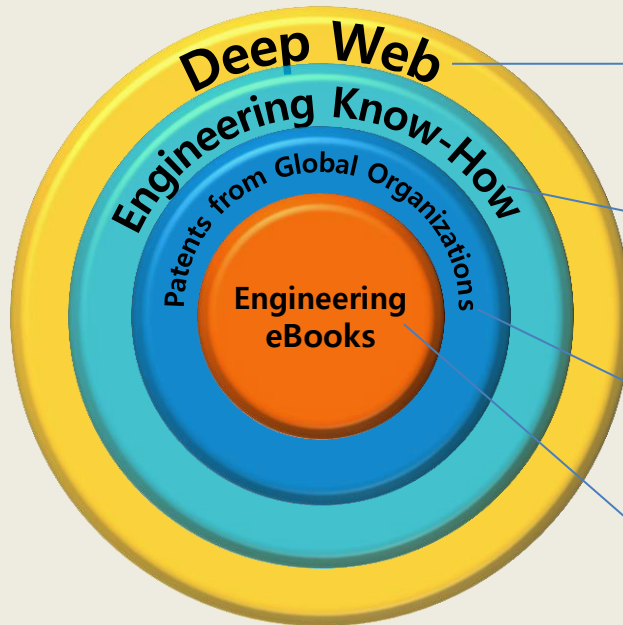
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2
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- Taguchi's Quality Engineering Handbook
- Uhlig's Corrosion Handbook
- Wiley Database of Polymer Properties
- Kirk-Othmer Encyclopedia of Chemical Technology
- Ullmann's Encyclopedia of Industrial Chemistry

WILEY

- Perry's Chemical Engineers' Handbook
- Marks' Standard Handbook for Mechanical Engineers
- Roark's Formulas for Stress and Strain
- Advanced MEMS Packaging
- Energy Systems Engineering

McGraw Hill Education

- Springer Engineering eBook Collection
- Springer Aerospace Industry Collection
- Springer Chemical Manufacturing Industry Collection
- Springer Electronics Industry Collection
- Springer Oil & Gas Industry Collection
- Springer Materials database

Springer

- Machinery's Handbook
- Basic Corrosion Technology for Scientists and Engineers
- Engineering Composite Materials
- Metallurgical Modeling of Welding
- Worked Examples in Quantitative Metallography

IP

Research · Knowledge · Innovation



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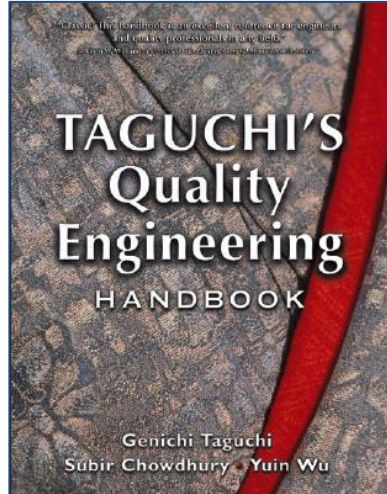
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Engineering eBooks WILEY



2004. 11 Wiley 출판
Genichi Taguchi 저

품질공학에 대한 도서.
현재 다양한 산업 현장에서
적용하고 있는 품질관리 방법론인
다구치 방법론을 다루고 있음.

전문정보 전체 (1-10 / 2,725건)

[학술논문] 다구치 기법과 요인실험의 실험 데이터의 산포 크기에 따라 결과 변화 고찰 KISTI 2013년

Study on the Result Changes with the Size of the Variance in **Taguchi Method** and Factor Experimental Purpose: The purpose of this paper is to show whether the results are changed with respect to...

산업공학 | 이상복 | 한국품질경영학회 / 한국품질경영학회보 (KCI 등재 [2])

☞ KISTI(무료) ☞ DGIST 외 88곳

[학술논문] 다구치 방법을 이용한 디젤엔진용 후처리시스템의 입구부 형상 최적화 KISTI 2012년

The Inlet Shape Optimization of Aftertreatment System for Diesel Engine with **Taguchi Method** New design of catalytic converter is proposed by optimization of DFSS (Design For Six Sigma) and DOE (Design Of...

자동차공학 | 정종화 외 2명 | 한국자동차공학회 / 한국자동차공학회... (KCI 등재 [2])

☞ KISTI(무료) ☞ 한양대학교 외 87곳 | 참고문헌(4건)

[학술논문] ... consideration using multi-objective **Taguchi method** and RSM KISTI 2012년

... The optimization approach attempts to consider simultaneously the multiple quality characteristics, namely weld nugget and heat affected zone (HAZ), using multi-objective **Taguchi method** (MTM)...

기계공학 | Muhammad Norasiah 외 5명 | 대한기계학회 / Journal of... (SCIE [2]KCI [2])

☞ KISTI(무료) ☞ 중앙대학교 (안성) 외 42곳

[학술논문] ... characteristics using **Taguchi method** and Grey relational analysis KISTI 2010년 | 인용된횟수(1건)

... The **Taguchi method** has been utilized to determine the optimal EDM conditions in several industrial fields. The **method**, however, was designed to optimize only a single performance...

기계공학 | Jong Hyuk Jung 외 3명 | 대한기계학회 / Journal of... (SCIE [2]KCI [2])

☞ KISTI(무료) ☞ 한성대학교 외 44곳

[학술논문] 유한요소해석과 다구치 방법을 이용한 클린치 스테드의 설계 최적화 2013년

Optimization Design of the Clinch Stud using the Finite Element Analysis and the **Taguchi Method** 본 연구에서는 유한요소 해석과 다구치 방법을 통해 높은 토크 저항력과 결합력을 갖는 클린치...

산업공학 | 변홍석 외 1명 | 한국산학기술학회 / 한국산학기술학회... (KCI 등재 [2])

☞ 학지사 뉴논문(유료) ☞ 명지대학교 외 49곳

[학술논문] 다구치 기법을 이용한 용사코팅의 공정 최적화 KISTI 2012년

Optimization for Thermal spray Process by **Taguchi Method** In the present study, process optimization for thermal-sprayed Ni-based alloy coating has been performed using **Taguchi method** and analysis of...

기계공학 | 김균택 외 1명 | 한국동력기계공학회 / 한국동력기계공학... (KCI 등재 [2])

☞ KISTI(무료) ☞ 한국예술종합학교 외 87곳 | 참고문헌(10건)

저는
이 책
유일
더불

니다.



IEEE

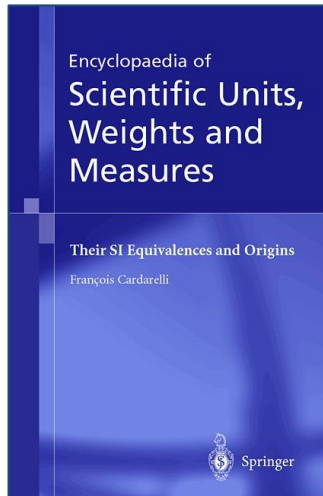


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Engineering eBooks Springer



2004. 10 Springer 출판 (3rd edition)
François Cardarelli 저

10,000여 개 이상의 측정 단위들에 대한
내용, 역사, 표준, 제정기관 등을
수룩하고 있는 사전

5 of 5 people found the following review helpful

★★★★★ A wonderful resource January 22, 2009

By Bruce R. Gilson

Format: Paperback | Amazon Verified Purchase

About five years ago I reviewed a book called "Measure for Measure," by Thomas J. Glover, and gave it 4 stars. In it I said:

"I would recommend it with just one reservation.

Unfortunately, the authors were somewhat arbitrary in deciding which units any particular one would be converted to. If I had written this book, I would have included at least the following for each unit: (1) All other units in the SAME system (i. e., if we are talking about a pre-revolutionary French unit of length, all other pre-revolutionary French units of length) and (2) the nearest-sized SI unit. Unfortunately they frequently leave out conversions between units of the same system that would be useful, and often units of the same approximate size are converted to different SI units, making comparisons difficult. (For example, one foot-size unit may be expressed as so many centimeters, while another as such a fraction of a meter.)

Both of these omissions can be circumvented by using a calculator and working with what these authors have chosen to include, but the book would be easier to use if they had done what I would have."

This book gets its fifth star primarily because it has the feature that I said _should_ have been in Glover's book. It is more comprehensive as well. With these factors, if Glover's book got four stars, this book _has_ to get 5. It has everything I loved in Glover's book, without the shortcomings.

이 책이 측정단위를 다룬 다른 유명 책보다 좋은 이유는 측정단위들의 체계적인 유형별 분류와 더불어 측정 단위 간 변환 내용 등, 필요했던 내용들이 모두 포함되어있기 때문입니다.

By Alistair Gillanders

Format: Hardcover | Amazon Verified Purchase

This is a truly excellent reference and certainly one of the most comprehensive available to date. As a reference work it does not suffer too badly from the one mildly irritating feature...namely the inclusion of so many obsolete units alongside the current usage. Generally this is flagged in the notes but some type of stronger highlighting of the current definitions would have saved a lot of time. For example the 11 definitions for the calorie or the 21 definitions for the gallon (3 of which are current)!

이 책은 정말 훌륭한 레퍼런스 자료이고 가장 이해하기 쉽게 작성된 책 중 하나입니다. 특히 수록된 측정 단위들 중 현재 활용되고 있는 정의들이 별도 표시되어 많은 도움이 되었습니다. 예를 들면 칼로리의 11개 정의들, 갤런의 21개 정의들 중 3개가 현재 쓰이고 있었습니다.

By Sergey Gershtein

Format: Paperback | Amazon Verified Purchase

This is a very complete and comprehensive reference book covering lots of measurements units both contemporary and ancient. I did not even think there could exist one like that having all the necessary info in one place. Fortunately I found this book and it was exactly the one I needed.

Comment | Was this review helpful to you? ☐ Yes ☐ No



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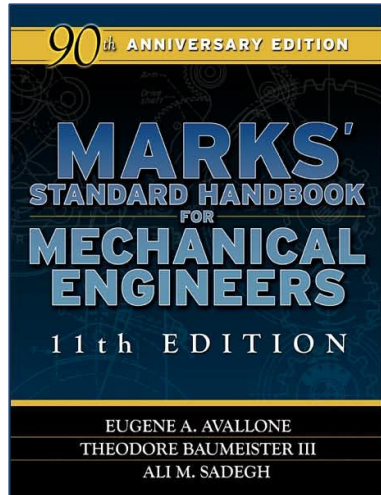
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Mc
Graw
Hill
Education



2006. 11 McGraw-Hill 출판 (11th edition)
세 명의 대표 저자를 비롯한 160여명의 팀이 저술

재료공학, 유체역학, 수학, 측정 단위 등
기계공학의 전분야를 수록하고 있는 도서로
90년 이상 동안 기계공학의 바이블로 여겨짐

★★★★★ Great all-in-one reference, April 27, 2013

By [Lars Remsen](#) - [See all my reviews](#)
REAL NAME

Amazon Verified Purchase ([What's this?](#))

This review is from: [Marks' Standard Handbook for Mechanical Engineers 11th Edition \(Hardcover\)](#)

You could still need books from specific disciplines for more in depth coverage, but for a single book covering essentially all physical science, I don't think you can do better.

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0 of 1 people found the following review helpful

★★★★★ Outstanding compendium of Mechanical Engineering information., April 17, 2013

By [Wes Woods](#) - [See all my reviews](#)

Amazon Verified Purchase ([What's this?](#))

This review is from: [Marks' Standard Handbook for Mechanical Engineers 11th Edition \(Hardcover\)](#)

A must have for the Mechanical Engineer's bookshelf. The content is vast and detailed. The drawings and photos are good quality.

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내용이 방대하고 디테일하며, 그림, 사진들의 퀄리티가 좋습니다.

By [Joseph P. Sener](#) (Crystal Lake, IL USA) - [See all my reviews](#)

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This review is from: [Marks' Standard Handbook for Mechanical Engineers 11th Edition \(Hardcover\)](#)

This handbook falls into the category of "as a mechanical engineer, if it is not in here you don't need to know it."

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기계 엔지니어로서, 이 책에 없는 내용이라면 몰라도 되는 내용입니다.

0 of 1 people found the following review helpful

★★★★★ Extremely Helpful, March 19, 2013

By [BenDickin](#) - [See all my reviews](#)

Amazon Verified Purchase ([What's this?](#))

This review is from: [Marks' Standard Handbook for Mechanical Engineers 11th Edition \(Hardcover\)](#)

Extremely helpful book for the Engineer. Has equations and information from almost all my college textbooks located in easy to read chapters. Would not be as productive without it.

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엔지니어들에게 매우 유용한 책입니다. 제 대학 교재들이 담고 있던 거의 모든 도표들과 내용들을 담고 있습니다.

By [JL](#) - [See all my reviews](#)

This review is from: [Marks' Standard Handbook for Mechanical Engineers 11th Edition \(Hardcover\)](#)

The book was everything promised, in excellent condition, and was received in a very short time. The revision was as advertised with all the latest reference material. Book was a great gift for student engineer.

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ASTM
International

Abstract

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미국 재료시험학회

ASM
International

Abstract

American Society for Metals
미국 금속학회

Medline

Abstract

Medical Literature Analysis and Retrieval System Online
미국 국립의학도서관

ASABE

Abstract

American Society of Agricultural and Biological Engineers
미국 농공학회



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OnePetro

Abstract

석유, 자원, 지질 관련 85,000 개 이상의 Article 제공
15개 학회가 참가

Springer
Articles

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2,600여 개 Journal의 420만 개 이상의 Articles
Science, Technology, Medicine, Business, Transport, Architecture 분야

SPIE.org

Abstract

International Society of Optics and Photonics. 국제 광전자 학회.
40만 건 이상의 Journals, Conference Proceedings 제공

Food Science
& Technology

Abstract

International Food Information Service (IFIS)에서 발행하는 Food
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Patents, Design, Trend, Issues Information



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Springer
Materials

Abstract

Landolt-Börnstein New Series(From 1883)
Physical and Chemical properties in Material Science

IUCr

Abstract

International Union of Crystallography. 국제 결정학 연합

Techniques de
l'ingénieur

Abstract

프랑스 최대의 과학 기술 자료 DB. 매년 소속 편집진이 수백 권의 자료
집을 출간. 자료집은 보통 수천 장의 PDF 형태로 제공되며, 공학 전분야
를 다루고 있음.

ASQ Articles

Abstract

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Articles

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NASA Tech Briefs. NASA와 협력업체들의 공학 기술문서 모음집. Electronics, Physical Sciences, Materials, S/W, Machinery/Automation, Manufacturing, Mathematics, Information Sciences, Life Sciences

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과학, 기술, 의료 분야의 500여 종의 Peer-Reviewed Journal을 포함
뉴욕과 이집트에 근거지를 두고 있음.

Project Euclid

Full Text

Cornell 대학교와 Duke 대학교에서 운영하고 있는 수학과 통계학 관련
저널의 온라인 서비스.



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Patents

검색 가능 특허 현황

- 미국 특허권 (USPTO) : 1971~현재
미국 특허출원 (USPTO) : 2001~현재
- EU 특허권 (EPO) : 1981~현재
EU 특허출원 (EPO) : 1988~현재
- 영국 특허권 (UK-IPO) : 1970~현재
영국 특허출원 (UK-IPO) : 1979~현재
- 독일 특허권 (GPTO) : 1980~현재
독일 특허출원 (GPTO) : 1970~현재
독일 실용신안 (GPTO) : 1980~현재

- 프랑스 특허권 (INPI) : 1985~현재
프랑스 특허출원 (INPI) : 1976~현재
- 일본 특허권 (JPO) : 1993~현재
일본 특허출원 (JPO) : 1994~현재
일본 특허초록 (JPO) : 1976~현재
- 국제 특허권 (WIPO) : 1978~현재



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Chapter

ISE with Goldfire



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to get Answers

Definitions, Advantages, Methods, Parameters,...
70여 개의 Concept Lenses (검색결과 분류)



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>> CUSTOMER SUCCESS STORY

Samsung Saves \$77M and Increases Market Share with Goldfire

Samsung Electronics has gone from being a maker of commodity electronics to one of the world's hottest brands. With \$55 billion in sales, Samsung maintains its technology and design leadership through a strong R&D commitment to new growth from differentiated products. Samsung used Invention Machine's Goldfire software to create an innovative new design for the optical pickup components of its CD/DVD recorder/players. The resulting design increased Samsung's CD-DVD market share by reducing component and manufacturing costs - saving \$77.7 million dollars over a three year time period - while also improving product reliability.

Market and Project Background

Samsung wanted to strengthen its leadership position in the DVD market by designing a breakthrough solution that would significantly reduce costs while maintaining or improving overall product reliability and functionality. This case study chronicles the process and results of the SELLINO project - the fourth in a series of 'extreme trial' projects chartered to decrease costs through innovative new product design.

How Goldfire Helped

Optical pickups are used in CD and DVD devices to perform data

SAMSUNG

Fast Facts

Industry
Electronics/High Tech

Headquarters
Seoul, South Korea

Challenge
CD-DVD players required two optical pick-ups making them expensive and more prone to failure.

Solution
Used Goldfire to develop a patentable solution using a single pick-up for both CD and DVD.

Benefits
By combining the 2 laser

제작공정 생산성이 38% 증가했으며, CD-DVD 플레이어 한대 당 순 제작비용이 \$3.7 감소해 모두 7,700만 달러의 비용절감 효과를 볼 수 있었다.

functions of the trimmed components.

They first turned to Invention Machine's proprietary content to stimulate creative out-of-box thinking. The library of Inventive Principles provided conceptual insights on how analogous technical challenges had been solved in the past. The principles stimulate creative thinking regarding contradictions - such as how a single set of optical components might deliver the conflicting CD-DVD requirements.

The engineers also consulted Goldfire's library of System Modification Patterns. The patterns are recommendations, abstracted from analysis of patent literature, for alternative configurations that optimize interactions between system elements or measurement techniques.

facturing bonding points was reduced. Productivity of the manufacturing process increased by 38%.

Samsung realized a net cost saving of \$3.70 per CD-DVD player. Total savings realized was \$77.7 million.

The new designs expanded Samsung's intellectual property portfolio by a total of 13 patents.



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Armed with these creative insights, the SELLINO team was ready to pursue detailed research into prior art, internal corporate knowledge bases, and the expertise encoded in worldwide patent literature.

Using Goldfire's semantic indexing and natural language queries, the team quickly retrieved concepts relevant to their challenge. Queries such as "How to emit light of two different wavelengths?" or "How to combine CD and DVD optical pickups?" returned document lists highlighting the sentences that described the precise functional requirement. In just hours the team mined the expertise of millions of patents and leveraged technical know-how from years of Samsung's internal corporate documents.

The team also used Goldfire's semantic text summarization capabilities to expedite the process of assessing document relevance and extracting pertinent concepts. A list of potential solutions and concepts worthy of consideration was quickly assembled and organized by the software's Solution

Goldfire Usage Highlights

Samsung followed an ideation process leveraging Invention Machine software with its semantic knowledge engine and integrated problem analysis tools - automating proven methodologies from value engineering and inventive problem solving:

- ▶ Stimulation of creative thinking from specialized ideation libraries
- ▶ Concept development via semantic analysis of internal & external expertise
- ▶ Formal ranking & selection of best ideas

using Goldfire to review and protect new intellectual prop-

자연어 검색 기능의 도움

"How to emit lights of two different wavelengths?"

"How to combine CD and DVD optical pickups?"

Summary 기능을 이용하여 특허 정보 취득

engine enabled rapid identification and navigation of complex technical documents. In the final outcome, the team was able to design a solution that replaced the two distinct light emitting diodes with a single dual wavelength laser diode and eliminated the need for a cubic beam splitter and associated separate lenses.

Summary of Project Results

The SELLINO project achieved a more ideal design which improved reliability of the CD-DVD device complexity. By combining the two laser diodes into one, the number of lenses from six to four, the project achieved a significant cost reduction in components. Reliability was increased by 33% as the number of manufacturing bonding points was reduced from 38 to 26. And

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per CD-DVD player. At 7 million player units per year, over a three year time period, the total savings realized was \$77.7 million dollars. Furthermore, the new designs expanded Samsung's intellectual property portfolio by a total of 13 patents, four of which were filed in the USA.

Global 2000 manufacturers in more than 40 countries rely on Invention Machine's Goldfire platform for product innovation, process improvement and market expansion. For additional information, please visit



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French Patent Applications

How long few, it is required that the sheet of steel used to constitute the bodies of automobiles presents a high corrosion resistance, and there is

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General facts about: high corrosion resistance

Definitions

JP	Ni group anticorrosive alloy	(7)
EN		
JP	superior 耐 grain boundary corros...	(6)
EN		
JP	Cr chromium -Al aluminum -Ni nickel -b...	(4)
EN		
JP	design criteria	(4)
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stainless steel	(89)
JP high 耐 high-intensity predacious	(58)
EN relatively poor corrosion resistance of...	(53)
titanium	(44)
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EN	

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Concepts

JP	anticorrosive high stainless steel	(138)
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high corrosion resistance property	(122)	

Advantages

JP	Ni	(12)
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prevention of collector plate from decay...	(8)	



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